

Fwd: RE: GBRA RAPlanet DOY 141/142 pass results**From:** Charles Stelzried <Charles.T.Stelzried@jpl.nasa.gov>**To:** Pamela.R.Wolken@jpl.nasa.gov**CC:** Martin.A.Slade-III@jpl.nasa.gov, Michael.J.Klein@jpl.nasa.gov, Lawrence.Teitelbaum@jpl.nasa.gov**Date:** 2003-05-22 16:13

Pam: Analysis of the 'minicals' for this dss14 k-band activity taken during these measurements is attached. This does show a non-linearity of -3.6% (cell S22) with a stdev 0.2% (cell U22) for this K-band configuration.

The nonlinearity 'requirement' for a well oiled system should be less than 0.5% in my opinion* for this non-linearity.

However, I assume this is not an operations problem but a design/maintenance problem?

* this opinion for 0.5% value as an upper limit and 0.2% as a goal has been argued; the impact depends on the user/experiment. For example, for a overall measurement of antenna eff accuracy of 1%, the individual errors such as nonlinearity should be less than 0.5%. I assume Mike does not need that accuracy for these particular measurments but only Mike can speak to that.

Charles

>Date: Thu, 22 May 2003 08:20:18 -0700
>From: "Wolken, Pamela R." <PWolken@jftl.jpl.nasa.gov>
>Subject: RE: GBRA RAPlanet DOY 141/142 pass results
>To: "RARG DSS-14," <RARGDSS-14@jgld.gdscc.nasa.gov>
>Cc: "Snedeker, Charley" <CSnedeker@jgld.gdscc.nasa.gov>, <EHolmgren@jgld.gdscc.nasa.gov>, <GBury@jgld.gdscc.nasa.gov>, <JMcCoy@jgld.gdscc.nasa.gov>, <RMcConahy@jgld.gdscc.nasa.gov>, <TGregor@jgld.gdscc.nasa.gov>, <Charles.T.Stelzried@jpl.nasa.gov>, <Michael.J.Klein@jpl.nasa.gov>
>
>Randy,
>
>Obviously, there were no data losses from the ANT and power meter
>problems or you would have opened a DR. Right now, we are under
>intense scrutiny for DRs, so please risk erring on the side of caution
>and open a DR for any and all problems encountered during all Science
>support activities.
>
>Thanks,
>p
>
>Pamela R. Wolken
>Consolidated Space Operations Contract
>Phone: 626 584-4414
>FAX: 626 584-4561
>Page: 626 932-7945
>
>
>> -----Original Message-----
>> From: RARG DSS-14,

>> Sent: Wednesday, May 21, 2003 10:42 PM
>> To: Stelzried, Charles T; Klein, Michael J
>> Cc: Snedeker, Charley; Holmgren, Erik; Bury, Gary; McCoy, Jim; Wolken,
>> Pamela R.; McConahy, Ralph; RARG DSS-14.; Gregor, Tim
>> Subject: GBRA RAPlanet DOY 141/142 pass results
>>
>>
>> Mike/Charles:
>>
>> Here is the data for the RA Planet on DOY 142.
>>
>> SRC Position: 024; SEMOD on 14; 4I21K
>> Receiver: K-HEMT LCP RARG 1; R&D Rcvr #1
>> System Temp: 41.07k
>>
>> Weather:
>>
>> PreCal: Sky Clear
>> Wind 7mph/SE
>> Temp 33C
>> Hum 11%
>> BP 902 mBar
>>
>> PostCal: Sky Clear
>> Wind 15 mph/WSW
>> Temp 26C
>> Hum 15%
>> BP 900 mBar
>>
>>
>> Problems/Comments
>> 1. Ran into problems with the first set of BORs
>> on 3C84 (ANT and Power Meters were acting up)
>> 2. The Operator had to reset the ASC to get the
>> Antenna on point for every source.
>> 3. 30 Boresits on 3C84, Saturn, Jupiter and 3C273.
>> 4. 1 SRC Z-Scan on 3C273 with Data
>> 5. 1 SRC Z-Scan on Jupiter with Data.
>>
>>
>> Crew Supervisors Comments:
>>
>> None.
>>
>> Ron Winkler
>>
>>
>>
>> Regards,
>> R. Rose
>> RARG/ADVDEV
>> DSS14
>> Phone: 760.255.8470
>> FAX: 760.255.8515
>>
>> << File: 4I21K141.EFF >> << File: 4I21K141.PTG >> << File: DRIFT141.DAT
>> >> << File: OBS141.CSV >> << File: PRE141.CSV >> << File: RA141.DAT >>
>>



TopCAL_030517_Lz_K_band.xls

